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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,827	02/19/2002	Atsushi Shimizu	0216-0466P	2851
2292 7:	590 09/23/2002			
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
FALLS CHURCH, VA 22040-0747			SERGENT, RABON A	
			ART UNIT	PAPER NUMBER
			1711	
			DATE MAILED: 09/23/2002	0

Please find below and/or attached an Office communication concerning this application or proceeding.

1.0

Office Action Summary

Application No. 10/049,827

Applicant(s)

Shimizu et al.

Examiner

Rabon Sergent

Art Unit **1711** 

	The MANING DATE of this arms in the				
Period	for Reply	rs on the cover sheet with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>three</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
***************************************	a data of this continuationities	In no event, however, may a reply be timely filed after SIX (6) MONTHS from the			
- Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause uply received by the Office later than three months after the mailing date of patent term adjustment. See 37 CFR 1.704(b).	y and will expire SIX (6) MONTHS from the mailing date of this communication.			
Status					
1) 🗆		,			
2a) ∐	This action is <b>FINAL</b> . 2b) X This a	ction is non-final.			
3) 🗆	closed in accordance with the practice under $Ex p$	e except for formal matters, prosecution as to the merits is parte Quayle, 1935 C.D. 11; 453 O.G. 213.			
Disposi	tion of Claims	·			
4) 💢	Claim(s) <u>1-8</u>				
4 	a) Of the above, claim(s)	is/are withdrawn from consideration.			
5) 🗀	Claim(s)	is/are allowed.			
		is/are rejected.			
		is/are objected to.			
8) 🗀	Claims	are subject to restriction and/or election requirement.			
Applica	tion Papers				
9) 🗌	The specification is objected to by the Examiner.				
10)	The drawing(s) filed on is/arc	e a) $\square$ accepted or b) $\square$ objected to by the Examiner.			
		drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is: a) $\square$ approved b) $\square$ disapproved by the Examiner.			
	If approved, corrected drawings are required in reply				
12)	The oath or declaration is objected to by the Exam	iner.			
Priority (	under 35 U.S.C. §§ 119 and 120				
13)💢	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d) or (f).			
	All b)□ Some* c)□ None of:				
	. Certified copies of the priority documents have				
	. U Certified copies of the priority documents have	ve been received in Application No			
	<ul> <li>Copies of the certified copies of the priority d application from the International Bure</li> </ul>	ocuments have been received in this National Stage			
	e the attached detailed Office action for a list of th	e certified copies not received.			
	Acknowledgement is made of a claim for domestic				
a) U The translation of the foreign language provisional application has been received.					
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachmer					
_	e of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).			
	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)			
3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s)					

Art Unit: 1711

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 4-213316 or JP 4-8719.

The references disclose the production of polyurethane prepolymers, wherein a polyisocyanate is reacted with a polytetramethylene ether glycol having a molecular weight and a molecular weight

Application/Control Number: 10/049,827

Art Unit: 1711

distribution which read on applicants' claims. Furthermore, the position is taken that the claimed high molecular weight PTMG content is an inherent characteristic of the disclosed polytetramethylene ether glycols. See abstracts.

3. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 4-213316 or JP 4-8719.

The references disclose the reaction of a prepolymer with a chain extender to yield a polyurethane polymer, wherein the prepolymer is produced from the reaction of a polyisocyanate with a polytetramethylene ether glycol having a molecular weight and a molecular weight distribution which meet applicants' claims. However, the references fail to disclose a chain extender having the claimed carbon chain length. The position is taken that chain extenders which meet those claimed by applicants were well known components for reaction with prepolymers to yield polyurethanes, at the time of invention. Such well known chain extenders are exemplified by ethylenediamine and butanediol. Therefore, it would have been obvious to utilize these chain extenders in place of the disclosed chain extenders, so as to arrive at the instant invention.

4. Claims 2, 5, 7, and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (703) 308-2982.

R. Sergent September 21, 2002 RABON SERGENT PRIMARY EXAMINER

Page 3